

44. SPENCERIA Trimen, J. Bot. 17: 97. 1879.

马蹄黄属 ma ti huang shu

Li Chaoluan (李朝銮 Li Chao-luang); Hiroshi Ikeda, Hideaki Ohba

Herbs perennial, white villous throughout. Rhizome woody, densely covered with remains of old petioles. Stems erect, terete, simple. Radical leaves: stipules ovate, herbaceous, adnate to petiole; petiole sheathing at base; leaf blade imparipinnate; leaflets opposite, rarely alternate, broadly elliptic or obovate-oblong; cauline leaves few, with few leaflets, or simple and then margin 3-lobed or 2- or 3-serrate. Inflorescences terminal, laxly racemose; bract entire or 3-lobed; involucre close to petals, cupular, 7- or 8-lobed, lobes narrowly ovate to lanceolate. Hypanthium obconic. Sepals 5, valvate, broadly linear to lanceolate, persistent; epicalyx segments 5, semiorbicular or triangular. Petals 5, golden or cream, oblanceolate to obovate. Stamens 30–40, in 2 or 3 series; filaments dilated and connate at base, persistent. Carpels (1 or) 2, at base of hypanthium, apically villous; ovary ovoid-cylindric; ovule 1, pendulous; style subterminal, filiform, long exerted from hypanthium; stigma minute. Fruit composed of flower parts excluding deciduous petals, dry and somewhat hardened. Achene 1, subglobose, with thin coat, enclosed in hypanthium. Seed lacking endosperm; cotyledons subsquare, large.

One species: Bhutan, China.

1. *Spenceria ramalana* Trimen, J. Bot. 17: 97. 1879.

马蹄黄 ma ti huang

Herbs 18–32 cm tall. Stems red-brownish, sparsely white villous or sericeous. Radical leaves 4.5–13 cm including petiole; stipules ca. 1 cm; petiole 1–6 cm; leaf blade with 13–21 leaflets; leaflets 1–2.5 × 0.5–1 cm, papery, lateral veins obscure, base rounded, margin entire, apex 2- or 3-lobed. Inflorescences 5–20 cm, 12–15-flowered; bract 8–20 mm; involucre abaxially with long, simple hairs and short, glandular hairs, adaxially glabrous, lobes acute at apex, 2 opposite ones longer than others, 2–3 × 0.8–1 mm. Flowers 1–2 cm in diam.; pedicel erect, 1.5–4 cm. Hypanthium ca. 2 mm. Sepals 3–6 × 1–1.8 mm, apex acute; epicalyx segments 1.2–3.5 × 1–3 mm, abaxially with long, simple hairs throughout and short, glandular hairs near apex, adaxially glabrous, apex obtuse or acute. Petals 4–10 × 2.5–6 mm, tapering into a short claw at base, apex rounded or subobtusate. Filaments yellow, 3–6 mm. Achene yellow-brown, 3–4 mm in diam. Fl. Jul–Aug, fr. Sep–Oct.

Alpine meadows, limestone mountain slopes; 3000–5000 m. Sichuan, Xizang, Yunnan [Bhutan].

This species (both varieties) is used medicinally.

- 1a. Flowers 1.5–2 cm in diam.; sepals 4–6 × 1.2–1.8 mm, epicalyx segments 2–3.5 × 1.5–3 mm; petals 6–10 × 4–6 mm 1a. var. *ramalana*
1b. Flowers ca. 1 cm in diam.; sepals 3–4 × ca. 1 mm, epicalyx segments 1.2–1.8 × 1–1.5 mm; petals 4–4.5 × 2.5–3 mm 1b. var. *parviflora*

1a. *Spenceria ramalana* var. *ramalana*

马蹄黄(原变种) ma ti huang (yuan bian zhong)

Flowers 1.5–2 cm in diam. Sepals 4–6 × 1.2–1.8 mm; epicalyx segments 2–3.5 × 1.5–3 mm. Petals 6–10 × 4–6 mm.

• Alpine meadows, limestone mountain slopes; 3000–5000 m. Sichuan, Xizang, Yunnan.

1b. *Spenceria ramalana* var. *parviflora* (Stapf) Kitamura, Acta Phytotax. Geobot. 15: 172. 1953.

小花马蹄黄 xiao hua ma ti huang

Spenceria parviflora Stapf, Bot. Mag. 149: t. 9007. 1923.

Flowers ca. 1 cm in diam. Sepals 3–4 × ca. 1 mm; epicalyx segments 1.2–1.8 × 1–1.5 mm. Petals 4–4.5 × 2.5–3 mm.

Alpine meadows; 3000–5000 m. Xizang [Bhutan].

